```
Sequence 2, Appli
Sequence 2, Appli
Sequence 6, Appli
Sequence 12, Appli
Sequence 13, Appli
Sequence 33, Appl
                                                                                                                                     (Without alignments)
69.576 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 1s the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
                                                                                                           March 5, 2003, 13:49:10 ; Search time 139 Seconds
                                                                                                                                                                                                                                                                                                                                                                                 4569144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pending_Patents_AA_Maln:*

1: /cgn2_6/ptodata/1/paa/pcTuS_COMB.pep:*

2: /cgn2_6/ptodata/1/paa/USG6_COMB.pep:*

3: /cgn2_6/ptodata/1/paa/USG6_COMB.pep:*

4: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

5: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

6: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

7: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

9: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

10: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

10: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

11: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

12: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

13: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

14: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*

14: /cgn2_6/ptodata/1/paa/USG8_COMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / Cgn2_6/ptodata/1/paa/US095_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US095_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US097_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US098_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US099_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US100_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US100_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US101_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US101_COMB.pep:
/ Cgn2_6/ptodata/1/paa/US101_COMB.pep:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              L6/prodate/1/paa/US090_COMB.pep:*
L6/prodate/1/paa/US091_COMB.pep:*
L6/prodate/1/paa/US091_COMB.pep:*
L6/prodate/1/paa/US091_COMB.pep:*
L6/prodate/1/paa/US094_COMB.pep:*
GenCore version 5.1.3 Copyrlght (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                              Total number of hlts satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-671-089-2
US-10-136-187-2
US-10-136-187-6
US-10-136-187-12
US-10-136-187-13
US-10-136-187-13
                                                                                                                                                                                                                                                                                                                              4569144 seqs, 644733110 resldues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
                                                                  OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                      BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                               1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                       Minimum DB seq length: 0 Maximum DB seq length: 2000000000
                                                                                                                                                                                           US-09-671-089-2
68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25
25
25
25
25
25
25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query
Score Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15
15
15
15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0
100.0
100.0
100.0
100.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    116:
118:
118:
120:
221:
224:
256:
                                                                                                                                                                                                        Perfect score:
                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          68
68
68
68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database :
                                                                                                                                                                                                                               Sequence:
                                                                                                                                                                                                                                                                                                                                Searched:
                                                                                                           Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Result
```

4, Appl 6, Appl 7, Appl 8, Appl 9, Appl 1,		0;
4000 00 00 00 00 00 00 00 00 00 00 00 00	SYSTEM	Gaps
rence ence ence ence ence ence ence ence		
ਰੂਪ ਦੇ ਜ਼ਿਲ੍ਹੇ ਦੇ ਜ਼ਿਲ	DELIVERY ;	0;
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	;	15;
		Length
	DRUG	Len
23333333333333333333333333333333333333	PEPTIDE	0;; 0;
887 - 887 - 887 - 887 - 887 - 887 - 887 - 887 - 888 - 887 - 888 -	S PEPTIC Peptld	DB 20; 0.0022; les (
33.6.1.1.1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		. O .
S US-10-136-187-34 S US-10-136-187-35 S US-10-136-187-35 S US-10-136-187-39 S US-10-136-187-39 S US-10-136-187-39 S US-10-136-187-39 S US-10-136-187-39 S US-10-136-187-28 S US-10-136-187-28 S US-10-136-187-28 S US-10-136-187-29 S US-10-136-187-29 S US-10-136-187-9 S US-10-136-187-18-18-18-18-18-18-18-18-18-18-18-18-18-	ALIGNMENT 71089 71089 27 27 156,246 1 1 1 FITC-LC	Score 68; DB Pred. No. 0.0 ; Mlsmatches
15. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ALIO 19 19 246 246 310c	red. Mls
22222222222222222222222222222222222222	ALIGNN US/09671089 n1e1 J. elda J. BRANE TRANSLOCAT 0000.09-27 000-09-27 09-27 100 3.1 squence orane translocat	0
ON TO THE TAR		
12222222222222222222222222222222222222	ALIGNMENT tion US/09671089 y, Daniel J. n, Imclda J. mEMBRANE TRANSLOCATING 067/20018 N UNMER: US/09/671,089 E. 2000-09-27 NUMBER: 60/156,246 1999-09-27 SS: 59 version 3.1 al Sequence membrane translocating membrane translocating	100. 100. ive
	10n	vat
00000000000000000000000000000000000000	Cat Cost Con Con Con Con Con No No In No In No In No In No In No In No In No In No In No No In No No No No No No No No No No No No No	rity ıser
	Application Application Application, Command, Co	Similarit 5; Conse
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	-089-2 -2. Applicate 1 in Formation 1 in Formation 1 in Formation 1 in Formation 2 in Figure 2 in Figure 2 in Figure 3 in Formation 1 in Formation 2 in Figure 3 i	Sim Sim
	RESULT 1 195-09-671-089-2 Sequence 2, Application US/096 GERERAL INFORMATION: APPLICANT: O'Mahony, Daniel; APPLICANT: Lambkin, Imclastiff and the control of the contr	Query Match Best Local S Matches 15
8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	UULT 1 09-671-06 GEQUENCE 2 GEGUENCE IN APPLICANT APPLICANT TITLE OF FILE REFE CURRENT A FURENT A FRIOR APP RIOR APP RIOR APP RIOR APP RIOR APP RIOR APP RIOR APP FRIOR PIL OURENT IN FRIOTHER IN TYPE: PR ORANISM FRATURE: OTHER IN REATURE: OTHER IN ORANISM CATURE IN OTHER IN ORANISM CATURE IN ORANISM	y M
	SSULT Seque APPI APPI APPI TAPI APPI CURR CURR PRIC PRIC PRIC PRIC PRIC PRIC PRIC PR	Quer Best Matc
	RES	
		

q

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 68; DB 25; Length 15; Lilarity 100.0%; Pred. No. 0.0022; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Sally
APPLICANT: C'Mahony, Daniel J.
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: LIPID-COMPRISING
FILE REPERENCE: 226272005300
FILE REPERENCE: 226272005300
CURRENT APPLICATION NUMBER: US/10/136,187
CURRENT FILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR APPLICATION NUMBER: US 60/287,786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  y Match 100.0%; Score 68; DB 25; Length 15;
Local Similarity 100.0%; Pred. No. 0.0022;
hes 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                APPLICANT: Harvie, Pierrot
APPLICANT: Harvie, Pierrot
APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Sally
APPLICANT: O'MAHONY Daniel J.
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
FILE REFERENCE: 226272005300
CURRENT APPLICATION NUMBER: US/10/136,187
CURRENT FILING DATE: 2002-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: Lysine is attached to DOPE-succinyl US-10-136-187-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTHER INFORMATION: Synthetic Construct US-10-136-187-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: US 60/287,786 PRIOR FILING DATE: 2001-04-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 13, Application US/10136187; GENERAL INFORMATION:
                                                                                                                                                05-10-136-187-12
Sequence 12, Application US/10136187
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 KKAAAVLLPVLLAAP 15
1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
Matches 15; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-136-187-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                               QD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION.

APPLICANT: Harvie, Pierrot
APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: O'Mahony, Daniel J.
TITLE OF INVENTION: LIPD-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METOHORS FOR THEIR PRODUCTION
FILE REFERENCE: 256272005300
CURRENT APPLICATION NUMBER: US 40/0/136,187
CURRENT APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2002-09-13
PRIOR FILING DATE: 2002-09-13
PRIOR FILING DATE: 2002-09-13
SPRIOR FILING DATE: 2002-09-13
SPRIOR FILING DATE: 2002-09-13
SPRIOR FILING DATE: 2002-09-14
                                                                                                                                                                                                                                                                  GENERAL INFORMATION.

APPLICANT: Harvie. Plerrot
APPLICANT: Paul, Ralph
APPLICANT: Cudmore. Sally
APPLICANT: O'Mahony. Daniel J.
TITLE OF INVENTION: LIPTD-COMPRESING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
FILE REFRENCE: 226272005300
CURRENT APPLICATION NUMBER: US '60/287,786
PRIOR APPLICATION NUMBER: US '60/287,786
PRIOR FILING DATE: 2002-09-13
PRIOR FILING DATE: 2002-09-13
PRIOR FILING DATE: 2002-09-14
SPRIOR FILING DATE: 2002-09-15
SOFTWARE: FASTSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 100.0%; Score 68; DB 25; Length 15; Best Local Similarity 100.0%; Pred. No. 0.0022; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 100.0%; Score 68; DB 25; Length 15; Best Local Similarity 100.0%; Pred. No. 0.0022; Antches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: Lysine is attached to galactose US-10-136-187-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 6, Application US/10136187 GENERAL INFORMATION:
                                                                                                                                                                                                                     Sequence 2, Application US/10136187; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KKAAAVLLPVLLAAP 15
                                                                        1 KKAAAVLLPVLLAAP 15
                                         1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Fas
SEQ ID NO 6
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-136-187-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-136-187-2
                                                                                                                                                                                                  US-10-136-187-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 3
```

ŏ

ö

Gaps

```
0; Gaps
                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 100.0%; Score 68; DB 25; Length 15; Best Local Similarity 100.0%; Pred. No. 0.0022; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                   APPLICANT: Harrie, Pierrot
APPLICANT: Harrie, Pierrot
APPLICANT: Baul, Raiph
APPLICANT: Cudmore, Sally,
APPLICANT: C'Mahony, Daniel J.
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Harvie, Plerrot
APPLICANT: Paul, Ralph
APPLICANT: Cudmort, Sally
APPLICANT: Cudmort, Sally
APPLICANT: Cudmory, Daniel J.
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: LIPID-COMPRISING PR THEIR PRODUCTION
FILE REFERENCE: 226272005300
CURRENT APPLICATION NUMBER: US/10/136,187
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR ELLING DATE: 2001-04-30
                 0; Indels
              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: 226272005300
CURRENT APPLICATION NUMBER: US/10/136,187
CURRENT FILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; NAME/KEY: VARIANT
...(15)
...(OTHER INFORMATION: D amino acid sequence
US-10-116-118-135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Synthetic Construct FEATURE:
                                                                                                                                                                                                                                                          ; Sequence 35, Application US/10136187 ; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 36, Application US/10136187
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Seguence
              Matches I5; Conservative
                                                                                                1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: VARIANT
                                                                                                                                                                                                                          US-10-136-187-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-136-187-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 35
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                   ò
                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                         APPLICANT: Harvie, plerrot
APPLICANT: Harvie, plerrot
APPLICANT: Harvie, plerrot
APPLICANT: Paul, Ralph
APPLICANT: Cudner, Sally
APPLICANT: Cudner, Sally
TITLE OF INVENTION: LIPTD-COMPRISING DRUG DELIVERY COMPLEXES
FILE REFERENCE: 226272005300
CURRENT APPLICATION NUMBER: US 80.710/136,187
CURRENT FILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: US 60.287,786
PRIOR APPLICATION NUMBER: US 60.287,786
PRIOR FILING DATE: 2002-09-13
SOFTWARE: FSSED for Mindows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Harvie, Plerrot
APPLICANT: Harvie, Plerrot
APPLICANT: Paul, Raiph
APPLICANT: Cudmore, Sally
APPLICANT: O'Mahony, Daniel J.
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
FILE REFRENCE: 22627506390
CURRENT APPLICATION NUMBER: US/10/136,187
CURRENT PILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 201-01-04-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Lysine is attached to Choiesteryl-succinyl US-10-136-187-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ch 100.0%; Score 68; DB 25; Length 15; 1 Similarity 100.0%; Pred. No. 0.0022; 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 100.0%; Score 68; DB 25; Length 15; Best Local Similarity 100.0%; Pred. No. 0.0022;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Lysine is attached to DOPE-succinyl US-10-136-187-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Synthetic Construct
                                                                                                                                                          Sequence 33, Application US/10136187 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 34, Application US/10136187 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence
1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: VARIANT
LOCATION: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: VARIANT
                                                                                                                                   US-10-136-187-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-136-187-34
```

SEQ ID NO 33

FEATURE:

Matches

ò

RESULT 7

```
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 13
                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Sally
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
FILE REFERENCE: 226272095300
CURRENT PAPLICATION NUMBER: US/10/136,187
CURRENT FILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: US 60/281,786
PRIOR PILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 45
SEQ ID NO 38
SEQ ID NO 38
CENTRARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 68; DB 25; Length 15; 100.0%; Pred. No. 0.0022; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl US-10-136-187-37
               ; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl US-10-136-187-36
                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Paul, Riph
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Sally
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
FILE REFERENCE: 226572005300
CURRENT APPLICATION NUMBER: US/10/136,187
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR PLILING DATE: 2001-04-30
                                                                                                         100.0%; Score 68; DB 25; Length 15; 100.0%; Pred. No. 0.0022; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 45 SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                          ; Sequence 37, Application US/10136187; GENERAL INFORMATION: APPLICANT: Harvie, Pierrot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 38, Application US/10136187
GENERAL INFORMATION:
APPLICANT: Harvie, Pierrot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Artificial Sequence
                                                                                                                                                            15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 100.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                             1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                       Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: VARIANT
NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 11
US-10-136-187-38
                                                                                                                                                                                                                                                                                                                                                          US-10-136-187-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE
                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dp
```

```
APPLICANT: O'Mahony, Daniel J.
APPLICANT: Lambkin, Imelda J.
ITILE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
FILE REPRENCE: B1067/2018
CURRENT APPLICATION NUMBER: US/09/671,089
PRIOR APPLICATION NUMBER: 60/156,246
PRIOR APPLICATION NUMBER: 60/156,246
                                                                                                                                                                                                      Ouery Match 100.0%; Score 68; DB 25; Length 15; Best Local Similarity 100.0%; Pred. No. 0.0022; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 68; DB 25; Length 15; 100.0%; Pred. No. 0.0022; trive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
US-10-136-187-39
                                                                                                                               OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: O'Mahony, Daniel J.
APPLICANT: O'Mahony, Daniel J.
ITTLE OF INVENTION: LIPID-COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: 226272005300
CURRENT APPLICATION NUMBER: US/10/136,187
CURRENT FILING DATE: 2002-99-13
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2001-04-30
NUMBER OF SED ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
FEATURE: OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 39, Application US/10136187; GENERAL INFORMATION:
, APPLICANT: Harvie, Pierrot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-671-089-3; Sequence 3, Application US/09671089; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 59
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 100.
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                         1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                              1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: VARIANT
                                               FEATURE:
NAME/KEY: VARIANT
                                                                                                                                                         US-10-136-187-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-136-187-39
                                                                                                          LOCATION: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 3
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                     Query Match
```

FEATURE:

```
ò
                                                                                                                                                                                                                                                                                                   qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 91, Application US/10116275

Sequence 91, Application US/10116275

Sequence 91, Application US/10116275

SEQUENCANT: Elan Pharmaceutical Technology
APPLICANT: O'Mahony, Daniel J.
APPLICANT: Brayden, David
APPLICANT: Harden, Daragh
APPLICANT: Happlins, Lisa
TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and
TITLE OF INVENTION: Compositions Targeting Peyer's Patches and M Cell Receptors
CURRENT APPLICANT: US/10/116,275

CURRENT FILING DATE: 2002-10-04

NUMBER OF SEQ ID NOS: 349

SOOTWARE PATCH OF THE PATCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Listed in Table titled "Peptides that Target to and/or Enhance Up
OTHER INFORMATION: take Across the GIT"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
US-09-61-09-48
: Sequence 48, Application US/09671089
: GENERAL INFORMATION:
: APPLICANT: O'Mahony, Daniel J.
: APPLICANT: O'Mahony, Daniel J.
: TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
: TITLE OF INVENTION: UNMERS: 2000-09-27
: CURRENT APPLICATION NUMBER: 60/156,246
: PRIOR APPLICATION NUMBER: 60/156,246
: PRIOR PELING DATE: 1999-09-27
: PRIOR FILING DATE: 1999-09-27
: NUMBER OF SEQ ID NOS: 59
: SOFTWARE: PALENTIN OF SEQ ID NOS: 59
: SOFTWARE: PALENTIN OF SEQ ID NOS: 59
                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Gaps
                                                                                                                       Ouery Match 100.0%; Score 68; DB 20; Length 16; Best Local Similarity 100.0%; Pred. No. 0.0024; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: dansylated membrane translocating peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ch 100.0%; Score 68; DB 20; Length 16; Lamilarity 100.0%; Pred. No. 0.0024; IS; Conservative 0; Mismatches 0; Indels
; OTHER INFORMATION: membrane translocating peptide US-09-671-089-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificlal Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; NAME/KEY: MOD_RES

; LOCATION: (1)..(1)

; OTHER INFORMATION: dansylated

US-09-671-089-48
                                                                                                                                                                                                                                                                                                                                                        1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
US-10-116-275-91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 48
LENGTH: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
```

```
Ouery Match
Best Local Similarity 100.0%; Score 68; DB 25; Length 176;
Best Local Similarity 100.0%; Pred: No. 0.0024;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps
19 I KRAMAVLIPVLLAAP 15
1111111111111111

bb 2 KKAMAVLLPVLLAAP 16
```

Search completed: March 5, 2003, 13:51:58 Job time : 140 secs

-	

```
GenCore version 5.1.3

Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:10; Search time 24 Seconds (without alignments)
62.726 Million cell updates/sec

Title: US-09-671-089-2

Perfect score: 68
Sequence: 1 KKAAAVLLPVLLAAP 15
Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5
Searched: 516697 seqs, 100361977 residues

Total number of hits satisfying chosen parameters: 516697
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
```

Pending_Patents_AA_New:*

1: /cgn2_6/ptodata/1/paa/PCT_NEW_COMB.pep:*
2: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
3: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
4: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
5: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
5: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
6: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
7: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
7: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
8: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pep:*
7: /cgn2_6/ptodata/1/paa/NSG0_NEW_COMB.pe

Maximum Match 100% Listing first 45 summaries

Database :

Post-processing: Minimum Match 0%

5, Appli 9, Appli Sequence 2, Appli Sequence 6, Appli Sequence 13, Appl. Sequence 33, Appl Sequence 4, Appli Sequence 62, Appl Sequence 108, App Sequence 12, Appl 28, Appl Description Sequence 3 Sequence 6 Sequence 6 Sequence 3 Sequence 7 Sequence 2 Sequence 3 Sequence 3 Sequence Sequence Sequence PCT-USO2-13609-12 PCT-USO2-13609-13 PCT-USO2-13609-33 PCT-USO2-13609-35 PCT-USO2-13609-35 PCT-USO2-13609-37 PCT-USO2-13609-37 PCT-USO2-13609-37 PCT-USO2-13609-39 PCT-USO2-13609-28 PCT-USO2-13609-32 US-10-126-845-48 PCT-USO2-13609-30 US-10-126-845-2 US-10-126-845-3 US-10-126-845-60 US-10-126-845-61 PCT-US02-13609-7 PCT-US02-13609-7 PCT-US02-13609-2 PCT-US02-13609-6 PCT-US02-13609-5 PCT-US02-13609-9 SUMMARIES Ouery Match Length DB 1000... Score

Application Applic			0)		
106 100 100 100 100 100 100 100 100 100			Gaps		
sedneuco			.;0		
Sednenos Sed		S	15;		ŒS
		ion) DRUG DELIVERY COMPLEXES THEIR PRODUCTION 13609 86	Length ; Tnde1		Lon DRUG DELIVERY COMPLEXES THEIR PRODUCTION
100 100 100 100 111 15 111 111 114 114 12 13 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17		RODU	в 1; 5е-0		DELIVERY PRODUCT:
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ENTS	n UG DE 609	3; DI 5. 4.:		n JG DE
-126 -126 -126 -126 -126 -126 -126 -126	ALIGNMENTS		truct ore 68; ed. No. 4		⊅ <u>□</u>
US-10-126-845-106 US-10-126-845-107 US-10-126-845-119 US-10-126-845-5 US-10-126-845-5 US-10-126-845-63 PCT-USOZ-13609-49 PCT-USOZ-13609-29 PCT-USOZ-13609-19 PCT-USOZ-13609-19 PCT-USOZ-13609-19 PCT-USOZ-13609-19 PCT-USOZ-13609-11 PCZ-USOZ-13609-11	AL	SO213609 COFFORATION Tems, LTD J.SING DRUG HODS FOR THEIR PCT/USO2/13609 4-30 60/287,786 0 S Version 4.0	Construc Score Pred. 0; Mism		S0213609 Corporation tems, LTD J. MPRISING DRU
000001111111000000		10S0 10S0 10S0 10S0 10S0 10S0 10S0 10S0	00		USO Stel
75 175 175 175 175 175 175 175 175 175 1		SGULT 1 T-USO2-13609-2 Sequence 2, Application PC/TUSO213609 GENERAL INFORMATION: APPLICANT: Targeted Genetics Corporation Party: APPLICANT: Targeted Genetics Corporation Party: APPLICANT: Fandald Gene Systems, LTD APPLICANT: Pauly: Ralph APPLICANT: Cudmore, Sally APPLICANT: O'Mahony, Danlel J. TITLE OF INVENTION: LIPID-COMPRISING DITTLE OF INVENTION NUMBER: PCT/USO2/I CURRENT FILING DATE: 2002-04-30 PRIOR FLING DATE: 2001-04-30 NUMBER OF SEQ ID NOS: 45 SSOFTWARE: FASTESED for Windows Version SEQ ID NO 2 LENGTH: 15 TYPE: PRT FEATURE: FEATURE:	R INFORMATION: Synthetic Construct -13609-2 Match 100.0%; Score 6 ocal Similarity 100.0%; Pred. N s I5; Conservative 0; Misma	.P 15 - P 15	Sequence 6, Application PC/TUS0213609 Sequence 6, Application PC/TUS0213609 Sequence 6, Application PC/TUS0213609 APPLICANT: Targeted Genetics Corporat APPLICANT: Baraid Gene Systems, LTT APPLICANT: Harvie, pierrot APPLICANT: Harvie, pierrot APPLICANT: Cudmore, Sally APPLICANT: Cudmore, Sally APPLICANT: O'MBNON, Dallal J. TITLE OF INVENTION: LIPID-COMPRISING TITLE OF INVENTION: AND METHODS POR
000000000000000000000000000000000000000		attic No. 1 No. 1 No. 1 No. 1 No. 1 No. 1 No. 1 No. 1 No. 1	d: S try serv	VLLAA VLLAA	tio H: H: G:d: G:d: G:d: G:d: G: P: P: H: L: H: L:
1000.0 10		9-2 Application P ORMATION: ORMATION: CRAFFICATION: Emerald Gene Harvie, Paier Paul, Ralph Cudmore, Sal Cudmo	OTHER INFORMATION: Sy CT-USO2-13609-2 Ouery Match Best Local Similarity Matches IS; Conserv	KKAAAVLLPVLLAAP KKAAAVLLPVLLAAP	Application P REMATION: Targeted Gene Emerald Gene Harvie, Pier Paul, Ralph Cudmore, Sal O'Mahony, Da VENTION: LIPI VENTION: AND
00000000000000000000000000000000000000		2-13609-2 2-13609-2 AL INFORMAT ICANT: Targe ICANT: Eme ICANT: Pau ICANT: Cud	.NFORN 1609-7 .ch .1 Sir 15;	KAAA1 XAAA1	ULT 2 USO2-13609-6 equence 6, Appl ENERAL INFORMAT APPLICANT: Bre APPLICANT: Bre APPLICANT: Pau APPLICANT: Pau APPLICANT: Cud APPLICANT: Cud APPLICANT: O'M APPLICANT: O'M TITLE OF INVENT TITLE OF INVENT
		SULT 1 F-USO2-13605 SEQUENCE 2, SEQUENCE 2, SEQUENCE 2, SEQUENCE 1NF APPLICANT: APPLICANT: APPLICANT: TITLE OF IN TITLE OF IN TITLE OF IN FILE REFRE CURRENT APPLICANT: PRIOR APPLICANT PRIOR APPLICANT PRIOR APPLICANT TITLE OF IN TITLE TITLE OF IN	HER 1 12-13 / Mat Loca Loca	4 4	ULT 2 -US02-1360 equence 6, equence 1nF experience 7 APPLICANT: AP
		RESULT 1 SCHOOL 2, SCHOOL 2, SCHOOL 2, SCHOOL 2, SCHOOL 2, SCHOOL 3, SCHOOL	; OTHER PCT-US02-1 OUERY MA BEST LOC MATCHES		PCT-USO2-13609 FCT-USO2-13609 SEQUENCE 6, GENERAL INFC APPLICANT: TITLE OF IN
·		ж. О	2	Qy Db	RES.

a

```
APPLICANT: Harvie, Pierrot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCT-US02-13609-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCT-US02-13609-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCT-US02-13609-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATIRE.
                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ó
                                                                                                                                                                                                                                                                                                                                                                                                                                      ..
O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: CUMORCE, Sally
APPLICANT: O'Mahony, Daniel J.
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
FILE REFERENCE: 226272005340
CURRENT APPLICATION NUMBER: PCT/USO2/13609
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 45
SOFTWARE: FEASESEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 68; DB 1; Length 15; 100.0%; Pred. No. 4.5e-05; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.0%; Score 68; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 4.5e-05; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Lysine is attached to DOPE-succinyl PCT-US02-13609-12
                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Lysine is attached to galactose PCT-US02-13609-6
CURRENT APPLICATION NUMBER: PCT/USO2/13609
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2001-04-30
                                                                                    NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 13, Application PC/TUS0213609
GENERAL INFORMATION:
APPLICANT: Targeted Genetics Corporation
APPLICANT: Emerald Gene Systems, LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Targeted Genetics Corporation
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Harvie, Pierrot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                          OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 12, Application PC/TUS0213609 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence
                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity 100.0
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Paul, Ralph
                                                                                                                                                                                                                                                                                  NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCT-US02-13609-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCT-US02-13609-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                   SEQ ID NO 6
                                                                                                                                                                               TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                 PEATITRE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
```

```
0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Targeted Genetics Corporation
APPLICANT: Targeted Genetics Corporation
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Burvie, Pierrot
APPLICANT: Paul Ralph
APPLICANT: Cudmore, Sally
APPLICANT: O'Mahony, Daniel J.
TITLE OF INVENTION: ADD METHODS FOR THEIR PRODUCTION
TITLE OF INVENTION: ADD METHODS FOR THEIR PRODUCTION
FILE REPERBACE: 2.2672205340
CURRENT APPLICATION NUMBER: PCT/US02/13609
CURRENT FILING DATE: 2002-04-30
PRIOR FILING DATE: 2001-04-30
APPLICANT: Paul, Raiph
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Sally
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
FILE REFERENCE: 226.72.005340
CURRENT APPLICATION NUMBER: PCT/US02/13609
CURRENT TELING DATE: 2002-04-30
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 45
SOFTRARE: FastSEQ for Windows Version 4.0
SEQ ID NO 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 68; DB 1; Length 15; 100.0%; Pred. No. 4.5e-05; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 100.0%; Score 68; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 4.5e-05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OTHER INFORMATION: Synthetic Construct
PCT-US02-13609-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 34, Application PC/TUS0213609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 33, Application PC/TUS0213609; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: VARIANT
```

ö

Gaps

```
PCT-USC2-13609-36

PCT-USC2-13609-36

Sequence 36, Application PC/TUSC213609

Sequence 36, Application PC/TUSC213609

SEQUENCE ALCANT: Targeted Genetics Corporation

APPLICANT: Targeted Genetics Corporation

APPLICANT: Harvie, pierrot

APPLICANT: Harvie, pierrot

APPLICANT: Paul, Ralph

APPLICANT: O'Mahory, Daniel J.

TITLE OF INVENTION: LIED-COMPRISING DRUG DELIVERY COMPLEXES

TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION

FILE REFERENCE: 226222005340

CURRENT APPLICATION NUMBER: PCT/USC2/13609

CURRENT FILING DATE: 2002-04-30

PRIOR FILING DATE: 2001-04-30

PRIOR FILING DATE: 2001-04-30

NUMBER OF SEQ ID NOS: 45

SOFTWARE: FESTERE FOR MINDOWS VERSION 4.0

SEQ ID NO 36

LIPMATH. 15
                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCT-US02-13609-37
STGREAL INFORMATION:
SEQUENCE 37, Application PC/TUS0213609
SEGUERAL INFORMATION:
APPLICANT: Targeted Genetics Corporation
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Paul, Falph
APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: O'Mahony, Danlel J.
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
FILE REFERENCE: 226272005340
CURRENT FILING DATE: 2002-04-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
PCT-US02-13609-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 100.0%; Score 68; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 4.5e-05; Matches 15; Conservative 0; Mismatches 0; Indels
                                  0; Indels
      Best Local Similarity 100.0%; Pred. No. 4.5e-05; Matches 15; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FLIANG DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
FEWARD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificlal Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificlal Sequence
                                                                                                                          1 KKAAAVLLPVLLAAP 15
                                                                                              1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRT
                                                                                              ò
                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Gaps
                  APPLICANT: Targated Genetics Corporation
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Paul, Ralph
APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: Cudmore, Danlel J.
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: LIPID-COMPRISING PRODUCTION
FILE REPERENCE: 226272005340
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 45
SOFTWARE: FASTESQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Targeted Genetics Corporation
APPLICANT: Targeted Genetics Corporation
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: Combiony, Daniel J.
APPLICANT: O'Mahony, Daniel J.
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: LIPID-COMPRISING PRODUCTION
FILE REPRENENCE: 22622063340
CURRENT APPLICATION NUMBER: PCT/USO2/13609
CURRENT PILING DATE: 2001-04-30
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 45
SOCTWARE: FASTSEC FOR Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: Lyslne is attached to Cholestery1-succiny1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 100.0%; Score 68; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 4.5e-05; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 68; DB 1; Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; LOCATION: 1
; OTHER INFORMATION: Lyslne is attached to DOPE-succinyl
PCT-USO2-13609-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: (1)...(15)
COTHER INFORMATION: D amino acid sequence PCT-USO2-13609-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 35, Application PC/TUS0213609 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artlficlal Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KKAAAVLLPVLLAAP 15
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCT-US02-13609-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

Gaps

Fri Mar

```
RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                             q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                   οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                             Gaps
                                                                    ; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl PCT-USO2-13609-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Targeted Genetics Corporation
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Hariot, Pierrot
APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: O'MAHONY, Daniel J.
TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl PCT-USO2-13609-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Paul, Ralph
APPLICANT: Cudmore, Sally
APPLICANT: O'Mahony, Daniel J.
ITTLE OF INVENTION: LIPTD-COMPRISING DRUG DELIVERY COMPLEXES
TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
                                                                                                                                         100.0%; Score 68; DB 1; Length 15; 100.0%; Pred. No. 4.5e-05; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 68; DB 1; Length 15; 100.0%; Pred. No. 4.5e-05; tive 0; Mismatches 0; Indels
                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: 226272005340
CURRENT APPLICATION NUMBER: PCT/US02/13609
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2001-04-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFRENCE: 256272005340
CURRENT APPLICATION NUMBER: PCT/US02/13609
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/287,786
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 45
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 39, Application PC/TUS0213609
GENERAL INFORMATION:
APPLICANT: Targeted Genetics Corporation
APPLICANT: Emerald Gene Systems, LTD
APPLICANT: Harvie, Pierrot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                      CT-US02-13609-38
Sequence 38, Application PC/TUS0213609
GENERAL INFORMATION:
                                                                                                                                                                   100.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence
                                                                                                                                                                   Best Local Similarity 100.8
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 100.
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                          1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                          1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KKAAAVLLPVLLAAP 15
                  NAME/KEY: VARIANT LOCATION: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCT-US02-13609-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEO ID NO 38
                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
FEATURE:
                                                                                                                                                                                                                                             δλ
```

```
APPLICANT: O'MADONY, Daniel J.
APPLICANT: Lambkin, Imelda J.
APPLICANT: Lambkin, Imelda J.
APPLICANT: Pinilla, Clemencia
APPLICANT: Pinilla, Richard
TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
FILE REFERENCE: E1067/20058
CURRENT APPLICATION NUMBER: US/10/126,845
CURRENT FILING DATE: 2002-10-15
NUMBER OF SEQ ID NOS: 119
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-126-845-2
Sequence 2. Application US/10126845
SEQUENCE 1. INFORMATION:
APPLICANT: Cambkin, Imelda J.
APPLICANT: Lambkin, Imelda J.
APPLICANT: Pinilla, Clemencia
APPLICANT: Houghten, Richard
TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
FILE REFERENCE: E1067/20058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl PCT-US02-13609-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Duery Match 100.0%; Score 68; DB 6; Length 15; Sest Local Similarity 100.0%; Pred. No. 4.5e-05; Matches 15; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                100.0%; Score 6%; DB 1; Length 15; Best Local Similarity 100.0%; Pred. No. 4.5e-05; Vatches 15; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: membrane translocating peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CIHER INFORMATION: membrane translocating peptide US-10-126-845-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/10/126,845
CURRENT FLINN DATE: 2002-10-15
NUMBER OF SED ID NOS: 119
SOFTWARE: Patentin version 3.1
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                         OTHER INFORMATION: Synthetic Construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 3, Application US/10126845; GENERAL INFORMATION:
                                                                                                        ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                NAME/KEY: VARIANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-126-845-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGIH: 15
                    SEQ ID NO 39
LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT
                                                                              TYPE: PRT
                                                                                                                                                                                                                                           LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: 0'Wahony, Daniel J.
APPLICANT: Lambkin, Imedda J.
APPLICANT: Lambkin, Imedda J.
APPLICANT: Lambkin, Imedda J.
APPLICANT: Plnilla. Clemencia
APPLICANT: Houghten, Richard
TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
FILE REFERENCE: E1067/20058
CURRENT APPLICATION NUMBER: US/10/126,845
CURRENT APPLICATION NUMBER: US/10/126,845
NUMBER OF SEQ ID NOS: 119
SOFTWARE: Patentin version 3.1
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: O'Mahony, Daniel J.
APPLICANT: C'Mahony, Daniel J.
APPLICANT: Lambkin, Imedda J.
APPLICANT: Pinlila. Clemencia
APPLICANT: Pinlila. Clemencia
APPLICANT: Houghten, Richard
TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
FILE REFERENCE: E1067/20058
CURRENT APPLICATION WUMBER: US/10/126,845
CURRENT FILING DATE: 2002-10-15
NUMBER OF SEQ ID NOS: 119
SOFTHAME: PARENTIN VETSION 3.1
                                                                                                                                                                                                            0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .;
0
                                                                                                                                               Query Match 100.0%; Score 68; DB 6; Length 15; Best Local SImilarity 100.0%; Pred. No. 4.5e-05; Matches 15; Conservative 0; Mismatches 0; Indeis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ch 100.0%; Score 68; DB 6; Length 15; 1 Similarity 100.0%; Pred, No. 4.5e-05; 15; Conservative 0; Mismatches 0; Indels
                      NAME/KEY: MOD_RES
LOCATION: (15)..(15)
OTHER INFORMATION: linked to FITC-LC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; NAME/KEY: MISC_FEATURE

; LOCATION: (1)...(15)

; OTHER INFORMATION: D form amino acid

US-10-126-845-60
                                                                                                                                                                                                                                                                                                                                                                                  RESULT 14
US-10-126-845-60
1S-10-126-845-60
Sequence 60, Application US/10126845
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 61, Application US/10126845 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: D form peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: D form peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                         1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                  1 KKAAAVLEPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 KKAAAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: MISC_FEATURE
LOCATION: (1)..(15)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-126-845-61
                                                                                                US-10-126-845-3
                                                                                                                                                        Query Match
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              õ
```

```
CTHER INFORMATION: D form amino acid
US-10-126-845-61

US-10-126-845-61

Ouery Match

Ouery Match

Best Local Similarity 100.0%; Score 68; DB 6; Length 15;

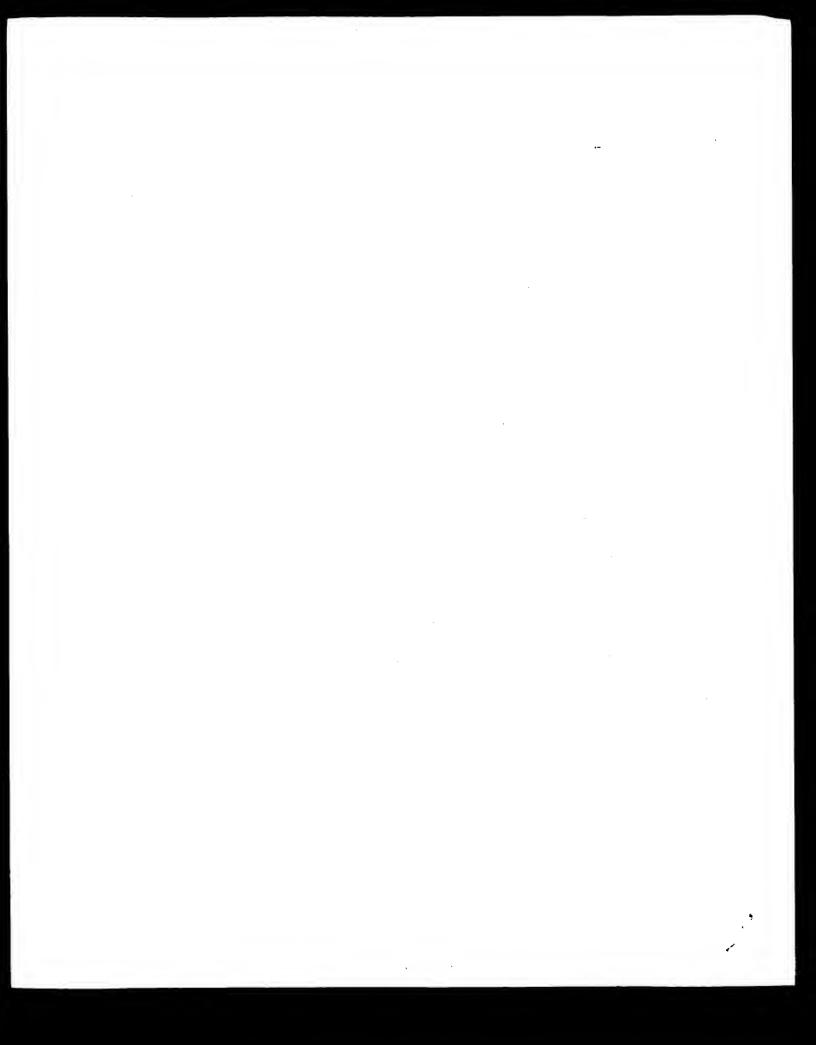
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0,

Oy 1 KKAAAVLLPVLLAAP 15

Db 1 KKAAAVLLPVLLAAP 15

Search completed: March 5, 2003, 13:52:28

Job time: 24 secs
```



```
GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.
```

OM protein - protein search, using sw model

March 5, 2003, 13:49:10 ; Search time 13 Seconds (without alignments) 48.658 Million cell updates/sec

1 KKAAAVLLPVLLAAP 15 US-09-671-089-2 Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

Searched:

188354 Total number of hits satisfying chosen parameters: 188354 seqs, 42170167 residues

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100% Listing first 45 summaries

Published_Applications_AA:* Database :

/cgn2_6/ptodata/1/pubpaa/USOB_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/PCCN_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/USOB_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/USOB_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/USOT_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/USOT_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/USOB_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/USOB_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/USOB_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/USOB_PUBCOMB.pep:*

/ogn2_6/ptodata/1/pubpa/0509______pep:*
/cgn2_6/ptodata/1/pubpa/050_____pep:*
/cgn2_6/ptodata/1/pubpa/0510___pep:*
/cgn2_6/ptodata/1/pubpa/0510___pep:*
/cgn2_6/ptodata/1/pubpa/0560__pep:*
/cgn2_6/ptodata/1/pubpa/0560__pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description			Sequence 10, Appl	Sequence 1, App11	Sequence 1, Appli	Sednence 9, Appli	Sednence 5, Appli	Sequence 8, App1i	Sequence 4, Appl1	7	Finds A anderson?	•	Sequence 2/, Appl		Sequence 85, Appl	Sequence 3. April		acqueince 107, App	Sequence 6, Appli		,	Seductice o, Appli	Sequence 81, Appl
ID	US-09-789-836-19	US-09-785-8028-10	115-10-116-288-1	T-00-01 01 02 01 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 110 200-y	0.000 011 01 00	8-88-9TT-0T-S0	US-10-116-288-4	US-10-116-288-7	US-09-916-658-4	US-09-801-196-27	110-010-010-01	10 - / CT CT CO CO	US-US-818-497-85	US-10-116-288-3	US-09-894-018-107	101-001-001-011	9-99/-506-60-50	US-09-866-582-38	11S-10-116-289-6	0.000.000.00	T9-700-809-60-80
% Query Match Length DB	12 10	12 10	12 13	386 9	11 12	11 12	10	2 .	77 07	9 12	582 10	582 10	582 10	776	OT 047T	9 12	308 10	974 10	101	1386 10	8 12	2802 0	6 7007
% Query Match Le	79.4	79.4	79.4	79.4	73.5	69.1	67.6		2.6	9.T9	58.8	58.8	58.8	0 4	9 1	4.70	57.4	57 4		4.70	55.9	55.9	
Score	54	54	54	54	20	47	46		7 .	7 6	40	40	40		7 0	מי	39	30		3,9	38	38	,
Result No.	1	7	٣	4	'n	9	7	α	•	,	0.7	11	12	~	7	7 .	CT	16		1	18	19	

Sequence 327. App		C	Sequence 2 Appli	ic	ic	20,0	226	2	206		200	, ,		ì	700		2000	Sequence 296, App	000	, ,	Triddy 's parantage	4		Sequence 296, App	296.	2, Ap	
ם		D	D	D		_		US-09-906-742-2	US-1	_	US-1	US-09-906-838-						US-10-137-865-296	US-10-	US-09-904-820-2	5	25	000000	US-I0-I42-431-29	US-10-143	US-09-904-786-2	
								353 9																			
							54	37 54.4	54		24	54	24	24	24	54	54	37 54.4	24	54	54	20	ŭ	ָרָ הַ	n	24	
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	32	36	37	38	39	40	41	42	1 (4	7 -	4.	45	

```
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide US-09-789-836-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match
79.4%; Score 54; DB 10; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 12; Conservative 0; Mismatches 0; Indels
                                                                                                       APPLICANT: BRIGHAM, KENNETH L.
APPLICANT: STECENKO, ARLENE A.
APPLICANT: SEALY, LINDA
TITLE OF INVENTION: TREATMENT OF INFLAMMATION WITH P20
                                                                                                                                                                                                                    FILE REFERENCE: N-6977
CURRENT APPLICATION NUMBER: US/09/789, 836
CURRENT APPLICATION NUMBER: US/09/789, 836
PRIOR APPLICATION NUMBER: 60/183, 584
PRIOR FILING DATE: 2000-02-18
NUMBER OF SEQ ID NOS: 33
                        ; Sequence 12, Application US/09789836
; Patent No. US20020082204A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4 AAVLLPVLLAAP 15
US-09-789-836-12
                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PYPE: PRT
```

1 AAVLLPVLLAAP 12 US-09-785-802A-10 δ g

Gaps

GENERAL INFORMATION:
APPLICANT: Craig, Roger.
TITLE OF INVENTION: DELIVERY VEHICLES AND METHODS FOR USING THE SAME FILE REFERENCE: 11067/2035
CURRENT APPLICATION NUMBER: US/09/785,802A : Sequence 10, Application US/09785802A : Patent No. US20020151004A1

```
JOURNAL: Nature Biotechnology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION: (1)..(11)
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        374 AAVLLPVLLAAP 385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 AAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                        386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-116-288-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-948-193-1
                                                        US-09-948-193-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauricio
APPLICANT: Tan, Zhongjia
APPLICANTON: "Sequence and Method for Genetic Engineering of
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
CURRENT APPLICATION NUMBER: US/10/116,288
CURRENT FILING DATE: __2002-04-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        79.4%; Score 54; DB 12; Length 12; 100.0%; Pred. No. 0.0044; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PUBLICATION INFORMATION:
AUTHORS: Rojas, M. et al.
TITLE: "Genetic Engineering of Proteins with Cell Membrane
                                                                                                                                                                                                                                                                                                 Match 79.4%; Score 54; DB 10; Length 12; Local Similarity 100.0%; Pred. No. 0.0044; es 12; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURKENT FILING DATE: 2002-04-04

PRIOR APPLICATION NUMBER: 09/762,868

PRIOR FILING DATE: 2000-05-01

PRIOR FILING DATE: 1998-11-04

PRIOR FILING DATE: 1998-11-04

PRIOR FILING DATE: 1998-03-31

NUMBER OF SEQ ID NOS: 18

SOFTWARE: PATENTIN VOR: 2.0

SEQ ID NOS: 18
CURRENT FILING DATE: 2001-02-16
PRIOR APPLICATION NUMBER: US 09/748,06
PRIOR FILLIG DATE: 2000-12-22
PRIOR APPLICATION NUMBER: US 09/748,789
PRIOR FILLING DATE: 2000-12-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1, Application US/10116288 Patent No. US20020143142A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL: Nature Biotechnology VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                   NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 100.0
Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 AAVLEPVELAAP 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4 AAVLLPVLLAAP 15
                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                   4 AAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (1) \dots (12)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                  US-09-785-802A-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-116-288-1
                                                                                                                                                                        SEQ ID NO 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION:
                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                              Matches
```

ő

```
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of TITLE OF INVENTION: "Sequence and Method for Genetic Engineering Activity" FILE REFERENCE: 12000.009703 CURRENT APPLICATION NUMBER: US/10/116,288 CURRENT FILING DATE: 2002-04-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ó
                                                                                          APPLICANT: RULEW, H. Earl
APPLICANT: RULEW, H. Earl
APPLICANT: Uo Daewoong
TITLE OF INVENTION: Genome Engineering by Cell-Permeable DNA
TITLE OF INVENTION: Stee-Specific Recombinases
FILE REFERENCE: 22000.0109U2
CURRENT APPLICATION NUMBER: US/09/948,193
CURRENT FILING DATE: 2001-09-07
PRIOR APPLICATION NUMBER: 60/230,690
PRIOR APPLICATION NUMBER: 60/230,690
NUMBER OF SEQ ID NOS: 21
SOUTHWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS: Rojas, M. et al.
TITLE: "Genetic Engineering of Proteins with Cell Membrane
TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 54; DB 9; Length 386;
Pred. NO. 0.19;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION; Description; His6-NLS-Cre-MTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    y Match 79.4%; Score 54; DB 5 Local Similarity 100.0%; Pred. No. 0.1 hes 12; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 09/562,868
PRIOR PELLING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 09/186,170
PRIOR FILING DATE: 1998-11-04
PRIOR APPLICATION NUMBER: 60/080,083
PRIOR FILING DATE: 1998-03-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 9, Application US/10116288
; Patent No. US20020143142A1
Sequence 1, Application US/09948193; publication No. US20030027335A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Lin, Yao-zhong
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauricio
APPLICANT: Tan, Zhongjia
```

```
APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauricio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: (1)..(10)
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 VLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 8
US-10-116-288-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: LIN, Yao-Zhong
APPLICANT: LIN, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rolas, Mauriatio
APPLICANT: Rolas, Mauriatio
APPLICANT: Rolas, Mauriatio
APPLICANT: Rolas, Mauriatio
APPLICANT: Pan, Zhongjia
TITLE OF INVENTION: Proteins with Cell Membrane Translocating of
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity.
FILE REFERENCE: 22000.009703
CURRENT APPLICATION NUMBER: US/10/116,288
CURRENT FILING DATE: 2002-04-04
PRIOR FILING DATE: 2000-05-01
PRIOR FILING DATE: 2000-05-01
PRIOR FILING DATE: 1099-11-04
PRIOR FILING DATE: 1099-11-04
PRIOR FILING DATE: 1998-11-04
PRIOR FILING DATE: 1998-13-11
NUMBER OF SEC ID NES: 18
SOFTWARE: Patentin Ver. 2.0

SEC ID NO 5.
                                                                                                                                                                                                   0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell:
                                                                                                                                   Ouery Match 73.5%; Score 50; DB 12; Length 11; Best Local Similarity 100.0%; Pred. No. 0.018; Matches 11; Conservative 0; Mismatches 0; Indcls
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ch 69.1%; Score 47; DB 12; Length 11; 1 Similarity 100.0%; Pred. No. 0.054; 11; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LUCATION: (1)..(11)
PUBLICATION INFORMATION:
AUTHORS: ROJAS, M. et al.
TITLE: "Genetic Engineering of Proteins with Cell Membrane
TITLE: Permeability"
JOURNAL: Nature Blotechnology
                                                                                                                                                                                                                                                                                                                                                                                                 : Sequence 5, Application US/10116288
; Patent No. US20020143142A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : Sequence 8, Application US/10116288
; Patent No. US20020143142A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                           1 AVLLPVLLAAP 11
                                                                                                                                                                                                                                    5 AVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 AAVLLPVLLAA 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4 AAVLLPVLLAA 14
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                             US-10-116-288-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-116-288-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 7
                                                                                                                                                                                                                                    δ
```

```
APPLICANT: Rolate, and in p. APPLICANT: Rolate, and rolling b. APPLICANTS with a control of the control of the
```

us-09-671-089-2.rapb

Fri Mar

ó

Gaps

ó

```
APPLICANT: Wang, Kai
APPLICANT: Smith, Ryan
APPLICANT: Fajardo, Mark
APPLICANT: Moss, Path Mark
APPLICANT: Moss, PATH NOS, PATH NOS, PATH NOS, TITLE OF INVENTION: A NOVEL MATRIX METALLOPROTEINASE (MMP-25)
TITLE OF INVENTION: EXPRESSED IN SKIN CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       58.8%; Score 40; DB 10; Length 582; 90.0%; Pred. No. 55; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  58.8%; Score 40; DB 10; Length 582; 90.0%; Pred. No. 55; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                APPLICANT: Strongin, Alex Y.
APPLICANT: Deryugina, Elena I.
TITLE DE INVENTION: Screening Methods Based On
TITLE DE INVENTION: Screening Methods based On
TITLE DE INVENTION: Superactivated Alpha v Beta 3 Integrin
FILE REFERENCE: P-LJ 4811
CURRENT APPLICATION NUMBER: US/09/916,658
CURRENT FILING DATE: 2001-07-26
PRIOR APPLICATION NUMBER: US 60/220.706
PRIOR FILING DATE: 2000-07-26
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSEQ for Windows Version 4.0
                 0; Indels
100.0%; Pred. No. 1.7e+05;
                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 240083.509
CURRENT APPLICATION NUMBER: US/09/801.196
CURRENT FILING DATE: .2001-03-06
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FASSESQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 27, Application US/09801196
Patent No. US20020037827A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 84, Application US/09919497
                                                                                                                                                                                           Sequence 4, Application US/09916658; Patent No. US20020025510A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 90...
    Best Local Similarity 100.0
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Homo sapiens
US-09-801-196-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Homo sapiens
US-09-916-658-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 539 AAAVVLPVLL 548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           539 AAAVVLPVLL 548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 AAAVLLPVLL 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 AAAVLLPVLL 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                             7 LLPVLLAAP 15
                                                                                   1|1|1|1|1|
1 LLPVLLAAP 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 12
US-09-919-497-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-801-196-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 4
LENGTH: 582
                                                                                                                                                             RESULT 10
US-09-916-658-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ωp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δy
                                                                                                    q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Amino acid
OTHER INFORMATION: sequence of peptide which transports proteins
OTHER INFORMATION: through the cell membrane into the cell.
                                              OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                              63.2%; Score 43; DB 12; Length 10; 100.0%; Pred. No. 0.21; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAWE/KEY: PEPTIDE
LOCATION: (1)...(9)
PUBLICATION INFORMATION:
AUTHORS: Rojas, M. et al.
TITLE: "Genetic Engineering of Proteins with Cell Membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61.8%; Score 42; DB 12; Length 9;
                                                                                                                                              LOCATION: (1)..(10)
PUBLICATION INFORMATION:
AUTHORS: Rojas, M. et al.
TITLE: "Genetic Engineering of Proteins with Cell Membrane
TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 7, Application US/10116288
; Patent No. US20020143142A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE: Permeability"
JOURNAL: Nature Biotechnology
VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                  JOURNAL: Nature Biotechnology
            ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                           10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 AAVLLPVLLA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
                                                                                                                                    NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-116-288-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-116-288-7
                                                                                                                                                                                                                                                                          VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                      FEATURE:
                                                                                                                FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
```

0; Gaps

..

```
1 KKAAAVLLPVLLAA 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                     SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         : PRT
                                                                                                                                   TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauriclo
APPLICANT: Tan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
FILE REFERENCE: 22000.009703
CURRENT APPLICATION NUMBER: US/10/116,288
                                                                                                                                                                                                                                                                                                                                                                                                         0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Gaps
             GENERAL INFORMATION:
APPLICANT: MULLER, GEOGGE L.
TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
FILE REPRENCE: B0801/7225
CURRENT APPLICATION NUMBER: US/09/919, 497
CURRENT APPLICATION NUMBER: US 60/221, 735
PRIOR APPLICATION NUMBER: US 60/221, 735
PRIOR FILING DATE: 2000-07-31
NUMBER OF SEQ ID NOS: 100
SOFTWARE: PATENTIN VETSION 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: MULTER, George L.
TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER FILE REFERENCE: B0801/7225
CURRENT APPLICATION NUMBER: US/09/919, 497
CURRENT FILING DATE: 2001-07-31
PRIOR PPLIAG DATE: US 60/221,735
RROR FILING DATE: 2000-07-31
NUMBER OF SEQ ID NOS: 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              58.8%; Score 40; DB 10; Length 1246; 72.7%; Pred. No. 1.3e+02; ative 2; Mismatches 1; Indels 0
                                                                                                                                                                                                                                                                                                                                                           58.8%; Score 40; DB 10; Length 582; 90.0%; Pred. No. 55; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 09/562,868 PRIOR FILING DATE: 2000-05-01 PRIOR APPLICATION NUMBER: 09/186,170 PRIOR FILING DATE: 1998-11-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 85, Application US/09919497
Patent No. US20020106662A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : Sequence 3, Application US/10116288
: Patent No. US20020143142A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Patentin version 3.0
SEQ ID NO 85
                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 90.0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 72.79
Matches 8; Conservative
; Patent No. US20020106662A1
                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Homo sapiens
US-09-919-497-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 AVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 AAAVLLPVLL 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 13
US-09-919-497-85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1246
                                                                                                                                                                                                                                                    582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-919-497-85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-116-288-3
                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ô
```

```
0; Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                   OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                57.4%; Score 39; DB 10; Length 308; 71.4%; Pred. No. 40; tive 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE: "Genetic Engineering of Proteins with Cell Membrane TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  57.4%; Score 39; DB 12; Length 9; 100.0%; Pred. No. 1.7e+05; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: METODS AND SYSTEM FOR OPTIMIZING TITLE OF INVENTION: MINIGENES AND PEPTIDES THEREBY FILLE OF INVENTION: MINIGENES AND PEPTIDES THEREBY CURRENT APPLICATION NUMBER: US/09/894,018 CURRENT FILLING DATE: 2001-06-27 PRIOR APPLICATION NUMBER: US/105/03568 PRIOR FILLING DATE: 2000-12-28 PRIOR FILLING DATE: 2000-12-28 PRIOR FILLING DATE: 199-12-28 PRIOR FILLING DATE: 199-12-28 PRIOR FILLING DATE: 2001-04-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 368
SOFTWARE: FastSEQ for Windows Version 4.0
PRIOR APPLICATION NUMBER: 60/080, 083
PRIOR FILING DATE: 1998-03-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 107, Application US/09894018; Patent No. US20020119127A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; OTHER INFORMATION: HCV.4312(1P)
US-09-894-018-107
                                                                                                                                                                               ORGANISM: Artificial Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL: Nature Biotechnology VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sette, Alessandro
Chestnut, Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Livingston, Brian
                                                   NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 71.4%
Matches 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS: Rojas, M. et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Baker, Denisw
APPLICANT: Newman, Mark
APPLICANT: Brown, David
                                                                                                                                                                                                                                                                                                                                                               LOCATION: (1)..(9)
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: EPIMMUNE, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 AAVLLPVLL 12
                                                                                                                                                                                                                                                                                                                                            NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AAVLLPVLL 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-894-018-107
```

Db 242 KKAAAVLVGGVLAA 255

Search completed: March 5, 2003, 13:52:48 Job time : 14 secs .-

```
GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compugen Ltd.
```

OM protein - protein search, using sw model Run on:

(without alignments) 31.525 Miilion cell updates/sec March 5, 2003, 13:49:09; Search time 14 Seconds

US-09-671-089-2 Perfect score:

1 KKAAAVLLPVLLAAP 15 Sequence:

Gapop 10.0 , Gapext 0.5 **BLOSUM62** Scoring table:

262574 seqs, 29422922 residues Searched:

Total number of hlts satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Issued_Patents_AA:*

/cgn2_6/ptodata/1/laa/5A_COMB.pep:*
/cgn2_6/ptodata/1/laa/5B_COMB.pep:*
/cgn2_6/ptodata/1/laa/6B_COMB.pep:*
/cgn2_6/ptodata/1/laa/6B_COMB.pep:*
/cgn2_6/ptodata/1/laa/BCCOMB.pep:*
/cgn2_6/ptodata/1/laa/PCTUS_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

			Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	App1i	Appli	Appli	Appli	, Appl	Appli	Appli	01, Ap	Appli	Appli	, Appl	
		r.	H	ť	6	6	'n	Ś	æ	æ	4	4	7,	7	7	H	٦,	'n	۲,	o,	7	28,	ω,	'n	500	é,	9	28	29
		Description	Sedneuce	Sednence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sednence	Sednence	Sequence	Sequence	Sequence	Sednence	Sequence	Sequence	Sednence	Sequence	Sequence	Sequence	Sednence	Sednence	Sequence	Seduence	Sequence	Sequence	Sequence
			-09-186-170-1	-09-562-868-1	186-1	19-562-868-9	186-	-09-562-868-5	JS-09-186-170-8	JS-09-562-868-8	-186-1	19-562-868-4	US-09-186-170-7	JS-09-562-868-7	-08-448-489-7	JS-08-704-711A-1	JS-09-521-220-1	-08-704-711A-2	JS-08-448-489-1	\mathbf{a}	÷	9-391-1	186-	562-	9-134-	19-186-170-6	562-	9-041-889-28	09-041-889-29
		ជ	ns-c	ns-c	ns-09	ns-09	-60-sn	ns-c	ns-(ns-c	ns-(0S-09	ns-c	ns-(ns-c	ns-c	OS-C	ns-c	ns-c	ns-09	ns-0	ns-0	ns-c	ns-09-	ns-0	-60-Sn	ns-c	ns-09-	ns•0
		8	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	3	4	4	4	4	4	4	4	4	4	3	3
		Length	12	12	11	11	11	11	10	10	10	10	σ	6	30	579	579	582	583	582	582	582	6		551	œ	œ	323	377
æ	Query	Match	79.4	79.4	73.5	73.5	69.1	69.1	9. 79	9. 79	63.2	63.2	61.8	61.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	57.4	57.4	57.4	55.9	55.9	55.9	55.9
		Score	54	24	20	20	47	47	46	46	43	43	42	45	40	40	40	40	40	40	40	40	39	39	39	38	38	38	38
	Result	No.	1	7	3	4	2	9	7	æ	ō	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27

Sequence 2, Appl1	Sequence 102, App	Sequence 102, App	Sequence 102, App	Sequence 2, Appli	Sequence 2, Appll	Sequence 21, Appl	Sequence 321, App	Sequence 2, Appli	Sequence 2, Appl1	Sequence 5, Appli	Sequence 11, Appl	~	Sequence 2, Appli	Sequence 6, Appl1	Sequence 10, Appl	Sequence 3, Appli	3, 2	
US-08-382-505-2	US-09-232-200-102	US-09-232-197-102	US-09-232-201-102	US-08-928-958-2	US-09-072-429-2	US-08-530-569B-21	US-08-858-207A-321	US-09-186-170-2	US-09-562-868-2	US-08-675-508-5	US-08-746-397-11	US-08-290-731C-2	US-09-356-952-2	US-08-290-731C-6	US-08-472-172-10	US-08-928-958-3	US-09-072-429-3	
7	4	4	4	~	~	~	4	4	4	7	4	~	3	7	~	~	7	
388	702	702	702	26	26	62	122	œ	∞	136	138	1319	1333	1336	21	27	27	
54.4	54.4	54.4	54.4	52.9	52.9	52.9	52.9	51.5	51.5	51.5	51.5	51.5	51.5	51.5	50.0	50.0	50.0	
37	37	37	37	36	36	36	36	35	35	35	35	35	32	35	34	34	34	
28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	

ALIGNMENTS

```
APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Yao-Zhong
APPLICANT: Dombube, John P.
APPLICANT: Dombube, John P.
APPLICANT: Tan, Zhongjia
TTLE OF INVENTION: "Sequence and Method for Genetic Engineering of
PLICE REFERENCE: VU9841
TTLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
PLICE REFERENCE: VU9841
CURRENT APPLICATION NUMBER: U5/09/186,170
CURRENT APPLICATION NUMBER: 60/080,083
EARLIER PRILING DATE: 1998-03-31
NUMBER OF SEQ ID NOS: 18
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE: NAME: NOTE TO SET TO 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               79.4%; Score 54; DB 4; Length 12; 100.0%; Pred. No. 0.0044; Indels tive 0; Mismatches 0; Indels
                                                Sequence 1, Application US/09186170; Patent No. 624858; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Artificiai Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL: Nature Biotechnology VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RELEVANT RESIDUES: 1 TO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 100.0
hes 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
US-09-186-170-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-186-170-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
```

4 AAVLLPVLLAAP 15 1 AAVLLPVLLAAP 12 ò qq

Fri Mar

```
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ó;
                                                                                    GENERAL INFORMATION:
APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauriclo
APPLICANT: Tan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of Patent No. 6432680
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
FILE REFERENCE: 22000.009702
CURRENT APPLICATION NUMBER: US/09/562,868
CURRENT APPLICATION NUMBER: 05/080.083
PRIOR APPLICATION NUMBER: 60/080.083
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauricio
APPLICANT: Rai, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of Patent No. 624858
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
CURRENT APPLICATION NUMBER: US/09/186,170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS: Rojas, M. et al.
TITLE: "Genetic Engineering of Proteins with Cell Membrane
TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        79.4%; Score 54; DB 4; Length 12; 100.0%; Pred. No. 0.0044; ative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Pred. w...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT FILING DATE: 1998-11-04
EARLIER APPLICATION NUMBER: 60/080,083
EARLIER FILING DATE: 1998-03-31
UNMBER OF SEQ ID NOS: 18
                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 09/186,170
PRIOR FILING DATE: 1998-11-04
NUMBER OF SEQ ID NOS: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 9, Application US/09186170 Patent No. 6248558
                                          Sequence 1, Application US/09562868
Patent No. 6432680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL: Nature Biotechnology VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 100. Matches 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: PEPTIDE
LOCATION: (1)..(12)
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 AAVLLPVLLAAP 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 AAVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
                  US-09-562-868-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-562-868-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-186-170-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δ
```

```
GENERAL INFORMATION:
APPLICANT: Lin. Yao-Zhong
APPLICANT: Donahu-P.
APPLICANT: Rojas, Mauricio
APPLICANT: Rojas, Mauricio
APPLICANT: Tan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                   73.5%; Score 50; DB 4; Length 11; 100.0%; Pred. No. 0.018; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS: Rojas, M. et al.
TITLE: "Genetic Engineering of Proteins with Cell Membrane
TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73.5%; Score 50; DB 4; Length 11; 100.0%; Pred. No. 0.018; tive 0; Mismatches 0; Indels
                                                                                                                                                                               "Genetic Engineering of Proteins with Cell Membrane
Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
Best Local Similarity 100.0%; Pred. No. v.v.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: 22000.009702
CURRENT APPLICATION NUMBER: US/09/562,868
CURRENT FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 60/080,083
PRIOR FILING DATE: 1998-03-31
PRIOR FILING DATE: 1998-11-04
NUMBER: OF SEO ID NOS: 18
SOFTWARE: Patentin Ver: 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-562-868-9; Sequence 9, Application US/09562868; Patent No. 6432680
                                                                                                                                                                                                                              JOURNAL: Nature Biotechnology VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL: Nature Biotechnology VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                  ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
RELEVANT RESIDUES: 1 TO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11; Conservative
                                                                                                                              LOCATION: (1)..(11)
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5 AVLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
Matches 11; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AVLLPVLLAAP 11
                                                                                                        NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-562-868-9
                                                                                                                                                                                                                                                                                                                                                                                       US-09-186-170-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 4
```

ò

```
RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauricido
APPLICANT: Fan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
Patent No. 6412680
TITLE OF INVENTION: Proteins with Celi Membrane Translocating Activity"
                                                                                                                                                                                                                                                                                                                                                                                        Patent No. 624858
TITLE OF INVERTION:
FILE REPRENCE: VUG941
CURRENT APPLICATION NUMBER: US/09/186,170
CURRENT FILING DAFE: 1998-11-04
EARLIER APPLICATION NUMBER: 60/080,083
EARLIER FILING DAFE: 1998-03-31
NUMBER OF SEQ ID NOS: 18
SOFWARE: PatentIn Ver. 2.0
SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                               GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Lin, Yao-Zhong
APPLICANT: Rojas, Mauricio
APPLICANT: Tan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Description of Artificial Sequence: Amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the ceil membrane into the ceil.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE: "Genetic Engineering of Proteins with Cell Membrane TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            69.1%; Score 47; DB 4; Length 11; illarity 100.0%; Pred. No. 0.056; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: 22000.009702
CURRENT APPLICATION NUMBER: US/09/562,868
CURRENT FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 60,080,083
PRIOR FILING DATE: 1998-03-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 5, Appilcation US/09562868
Patent No. 6432680
                                                                                                                                                                               Sequence 5, Application US/09186170 Patent No. 6248558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL: Nature Blotechnology VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RELEVANT RESIDUES: 1 TO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: (1)..(11)
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 11; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 AAVLLPVLLAA 14
5 AVLLPVLLAAP 15
                               1 AVLLPVLLAAP 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 AAVLLPVLLAA 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAGES: 370-375 .
DATE: 1998-04-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ISSUE: April
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 6
US-09-562-868-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-186-170-5
                                                                                                                                                        US-09-186-170-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
```

```
APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rai, Amuriclo
APPLICANT: Tan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of Patent No. 624858
PATENT OF INVENTION: Proteins with Ceil Membrane Translocating Activity"
FILE REFERENCE: VU9841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: Sequence of peptide which transports proteins OTHER INFORMATION: through the ceil membrane into the ceil.

NAME/KEY: PEPTIDE
LOCATION: (1)...(1)

AUGINETATION INFORMATION:
AUTHORS: ROJAS, M. et al.

TITLE: "Genetic Engineering of Proteins with Ceil Membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: Sequence of peptide which transports proteins OTHER INFORMATION: through the ceil membrane into the ceil.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE: "Genetic Engineering of Proteins with Cell Membrane TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              69.1%; Score 47; DB 4; Length 11; 100.0%; Pred. No. 0.056; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/186,170 CURRENT FILING DATE: 1998-11-04 EARLIER APPLICATION NUMBER: 60/080,083
PRIOR APPLICATION NUMBER: 09/186,170 PRIOR FILING DATE: 1998-11-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 8, Application US/09186170; Patent No. 624858; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EARLIER FILING DATE: 1998-03-31
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                              TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE: Permeablilty"
JOURNAL: Nature Biotechnology
VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL: Nature Biotechnology VOLUME: 16
                                            NUMBER OF SEQ ID NOS: 18
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RELEVANT RESIDUES: 1 TO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: (1)..(10) PUBLICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 AAVLLPVLLAA 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ISSUE: Apr11
; PAGES: 370-375
; DATE: 1998-04-01
US-09-562-868-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-186-170-8
                                                                                                                              LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
```

```
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-562-868-4; Sequence 4, Application US/09562868; Patent No. 6432680
                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
RELEVANT RESIDUES: 1 TO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4 AAVLLPVLLA 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-186-170-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VOLUME: 16
                                                                                                                                                                             SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                       APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Maurido
APPLICANT: Tan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
Patent No. 6432680
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.

NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rolas, Mauricio
APPLICANT: Rolas, Mauricio
APPLICANT: Tan, Zhongjia
'TITLE OF INFWITON: "Sequence and Method for Genetic Engineering of Patent No. 6248558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS: Rojas, M. et al.
ITTLE: "Genetic Engineering of Proteins with Cell Membrane
                                        67.6%; Score 46; DB 4; Length 10; ilarity 100.0%; Pred. No. 0.074; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   67.6%; Score 46; DB 4; Length 10; 100.0%; Pred. No. 0.074; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: 22000.0097U2
CURRENT APPLICATION NUMBER: US/09/562,868
CURRENT FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 60/080,083
PRIOR FILING DATE: 1998-03-31
PRIOR FILING DATE: 1998-11-04
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PATENTIN OFF: 2.0
                                                                                                                                                                                                                                                                                 Sequence 8, Application US/09562868
Patent No. 6432680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 4, Application US/09186170
; Patent No. 6248558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE: Permeability"
JOURNAL: Nature Biotechnology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 100.
mes 10; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (1)..(10) PUBLICATION:
                                                             Local Similarity
nes 10; Conserva
                                                                                                                                                     6 VLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 VLLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 VLLPVLLAAP 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
US-09-186-170-8
                                                                                                                                                                                                                                                              US-09-562-868-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-562-868-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-186-170-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VOLUME: 16
                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGIH
                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                ò
                                                                                                                                                                        q
```

```
GENERAL INFORMATION:
APPLICANT: Lin, Yao Zhong
APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauricio
APPLICANT: Tan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
Patent No. 6432600
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: Sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION: (1)..(10)
PUBLICATION INFORMATION:
TITLE: "Genetic Engineering of Proteins with Cell Membrane
TITLE: Permeability"
JOURNAL: Nature Biotechnology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: (1)..(10)
PUBLICATION INFORMATION:
AUTHORS: ROjas, M. et al.
TITLE: "Genetic Engineering of Proteins with Cell Membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                63.2%; Score 43; DB 4; Length 10; 100.0%; Pred. No. 0.23; tive 0; Mismatches 0; Indels
PILE REFERENCE: VUO941
CURRENT APPLICATION NUMBER: US/09/186,170
CURRENT FILING DATE: 1999-11-04
EARLIER APPLICATION NUMBER: 60/080,083
EARLIER FILING DATE: 1998-03-31
NUMBER OF SEO ID NOS: 18
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 22000.0097U2
CURRENT APPLICATION NUMBER: US/09/562,868
CURRENT FILING DATE: 2000-05-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 00/04/562,8

PRIOR PLILING DATE: 2000-05-01

PRIOR FILING DATE: 1998-03-31

PRIOR PILING DATE: 1998-03-31

PRIOR PILING DATE: 1998-11-04

NUMBER OF SEQ ID NOS: 18

SEQTHARE: Patentin Ver. 2.0

LENGTH: 10

"WALTH: 10
```

ö

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Yao-Zhong
APPLICANT: Tan, Zhongjia
ITILE OF INVENTION: "Sequence and Method for Genetic Engineering of
ITILE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
FILE REPERRENCE: 10984.
FILE REPERRENCE: 10984.11-04
CURRENT FILING DATE: 1998-11-04
EARLIER APPLICATION NUMBER: 60/080,083
EARLIER FILING DATE: 1998-03-31
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PATENTING VET. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Amino acid
OTHER INFORMATION: sequence of peptide which transports proteins
OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
0
                                                                                                                                                            63.2%; Score 43; DB 4; Length 10;
100.0%; Pred. No. 0.23;
iive 0; Mlsmatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: (1)..(9)
PUBLLCATION INFORMATION:
TITLE: "Genetic Engineering of Proteins with Cell Membrane
TITLE: Permeablilty"
JOURNAL: Nature Blotechnology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61.8%; Score 42; DB 4; Length 9;
100.0%; Pred, No. 2e+05;
7ative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                       Sequence 7, Application US/09186170
Patent No. 6248558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 7, Application US/09562868
; Patent No. 6432680
                    JOURNAL: Nature Biotechnology VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence
                                                                                                                                                                   63.28;
                                                                                                                                                                            Best Local Similarity 100.0
Matches 10, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RELEVANT RESIDUES: 1 TO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Lin, Yao-Zhong
TITLE: Permeabllity"
                                                                                                                                                                                                                                             4 AAVLLPVLLA 13
                                                                                                                                                                                                                                                                 Query Match
Best Local Simllarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 LLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                          ; ISSUE: Aprll
; PAGES: 370-375
; DATE: 1998-04-01
US-09-562-868-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 LLPVLLAAP 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PAGES: 370-375
DATE: 1998-04-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ISSUE: April
                                                                                                                                                                                                                                                                                                                                           RESULT 11
US-09-186-170-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-562-868-7
                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-186-170-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 12
                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
APPLICANT: Donahue, John P.

APPLICANT: Bonahue, John P.

APPLICANT: Rais, Mauriticlo

APPLICANT: Tan, Zhongjia

TTLE OF INVENTION: "Sequence and Method for Genetic Engineering of

Patent No. 643260

TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"

TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity.

TITLE OF INVENTION NUMBER: 2000-05-01

FRIOR PAPLICATION NUMBER: 60/080,083

PRIOR APPLICATION NUMBER: 60/080,083

PRIOR APPLICATION NUMBER: 09/186,170

PRIOR APPLICATION NUMBER: 09/186,170

PRIOR APPLICATION NUMBER: 09/186,170

PRIOR APPLICATION NUMBER: 09/186,170

SOFTWARE OF SEQ. ID NOS: 18

SOFTWARE PARE: PATENTING DATE: 1004-1004

SOFTWARE PATENTING DATE: 1004-1004

PATENTING DATE: 1004-1004

PRIOR APPLICATION NUMBER: 00/186,170

PRIOR APPLICATION NUMBER: 00/186,170

PRIOR APPLICATION NUMBER: 00/186,170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: SEIKI, Motoharu
APPLICANT: SATO, HIroshi
APPLICANT: SATO, HIROShi
APPLICANT: SATO, HIROShi
APPLICANT: SATO, HIROShi
TITLE OF INVENTION: NOVEL METALLOPROTEINASE AND ENCODING DNA THEREFOR
FIFE REFERENCE: 55-290P
CURRENT APPLICATION NUMBER: US/08/448,489
CURRENT FILING DATE: 1995-06-07
NUMBER OF SEQ ID NOS: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Amino acid OTHER INFORMATION: sequence of peptide which transports proteins OTHER INFORMATION: through the cell membrane into the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS: Rojas, M. et al.
TITLE: "Genetlc Engineering of Proteins with Cell Membrane
TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61.8%; Score 42; DB 4; Length 9; 100.0%; Pred. No. 2e+05; Live 0; Mlsmatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        58.8%; Score 40; DB 4; Length 30; 90.0%; Pred. No. 2.2; 1tlve 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 7, Application US/08448489
; Patent No. 6184022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificlal Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL: Nature Blotechnology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity 100.0
les 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 90.0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: (1)..(9)
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Homo sapiens
US-08-448-489-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 AAAVLLPVLL 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7 LLPVLLAAP 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; ISSUE: Aprll
; PAGES: 370-375
; DATE: 1998-04-01
US-09-562-868-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 13
US-08-448-489-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 30
                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
```

Page

```
US-09-521-220-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: DNA SEQUENCES FOR MATRIX
METALLOPROTEASES, THEIR PRODUCTION AND USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .;
0
                                                                                                      APPLICANT: WILL, HORST
APPLICANT: HINZMANN, Bernd
TITLE OF INVENTION: DAY
TITLE OF INVENTION: METALLOPROTEASES, THEIR PRODUCTION AND USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       58.8%; Score 40; DB 3; Length 579; 90.0%; Pred. No. 48; tive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                              PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRICE APPLICATION DATA:
APPLICATION NUMBER: WO PCT/DE95/00357
FILING DATE: 17-MAR-1995
PRIOR APPLICATION NUMBER: DE 4438838.1
FILING DATE: 21-OCT-1994
PRIOR APPLICATION NUMBER: DE 4409663.1
APPLICATION NUMBER: DE 4409663.1
APPLICATION NUMBER: DE 4409663.1
FILING DATE: 17-MAR-1994
ATTORNEY/AGENT INPORMATION:
NAME: GRANADOS, PARTÍCIA D.
REGISTRATION NUMBER: 33.683
                                                                                                                                                                                                                                        ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/704,711A
FILING DATE: 20-NOV-1996
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 33,683
REPERBENCE/ZDOCKET NUMBER: 26083/124
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 1, Application US/09521220
; Patent No. 6399348
                                  Sequence 1, Application US/08704711A Patent No. 6114159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: WILL, Horst
HINZMANN, Bernd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELERA: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          579 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 90.0%
Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 579 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-704-711A-1
                                                                                                                                                                                               NUMBER OF SEQUENCES: 2: CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ||||:|||||
| 536 AAAVVLPVLL 545
                                                                                                                                                                                                                                                                                         Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 AAAVLLPVLL 12
                                                                                                                                                                                                                                                                                                                                      RY: USA
20007-5109
                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-521-220-1
                   US-08-704-711A-1
                                                                                                                                                                                                                                                                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 15
RESULT 14
```

à

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        58.8%; Score 40; DB 4; Length 579; 90.0%; Pred. No. 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                         OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION UNBER: US/09/521,220
APPLICATION WABER: US/09/521,220
CLASSIFICATION: <Unknown>
STREET: 3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                   FKLOK AMPLICATION NUMBER: 08/704.711

FILING DATE: GURKNOWN>
APPLICATION NUMBER: DE 4438838.1

APPLICATION NUMBER: DE 4409663.1

FILING DATE: 21-0CT-1994
ATTORNY/AGENT INFORMATION:
REGISTRATION NUMBER: 35.683
REFERENCE/DOCKET NUMBER: 26083/124
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEPHONE: (202)672-5309
TELEFRAX: (202)672-5399
TELEFRX: 904136
INFORMATION FOR ESQ. ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQUENCE DESCRIPTION: SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Search completed: March 5, 2003, 13:49:33
                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                              21-OCT-1994
17-MAR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 579 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 90.00
Matches 9; Conservative
                             CITY: Washington STATE: D.C.
                                                                                           20007-5109
                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                536 AAAVVLPVLL 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 AAAVLLPVLL 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Job time : 15 secs
```